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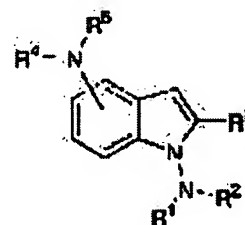
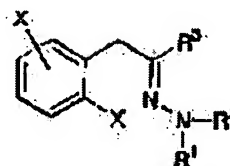
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(54) PRODUCTION OF SUBSTITUTED INDOLE DERIVATIVE

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject derivative from easily available raw materials by a simple method comprising reacting a specific hydrazone derivative with a specified amine in the presence of a catalyst comprising a phosphine and a palladium compound and in the presence of a specified amine.

SOLUTION: This method for producing a derivative of formula II comprises reacting (A) a hydrazone derivative of formula I [R¹ and R² are each H, an alkyl or a (hetero)aryl; R³ is H or aryl; X is a halogeno] with (C) an aurino of the formula: R⁴R⁵NH (R⁴ and R⁵ are each H, an alkyl or an aryl, or R⁴ and R⁵ are bound to each other together with the N atom to form a heterocyclic group) in the presence of (B) a catalyst comprising (i) a phosphine in an amount of 0.5 to 10 fold moles of the component ii and (ii) a palladium compound in an amount of 0.001 to 10 mol.% (converted into palladium) based on the component A and in the presence of a base in a molar ratio of 0.7 to 5 to the component A. The component i is preferably the compound having a tertiary butyl-phosphine bond.



LEGAL STATUS

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